**Problem 1**

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**Number theory**

* Find the last two digits of number 98765432112345678987654321

Since the base number ends in 1, the last digit ends in 1.

To find the tens-digit, multiple the tens-digit of the base with the last digit of the exponent, so in this case 2\*1 = 2

The last two digit of the number 98765432112345678987654321 is 21.